

PRIOR ART

FIG. 1

THE UNIVERSITY OF CHICAGO

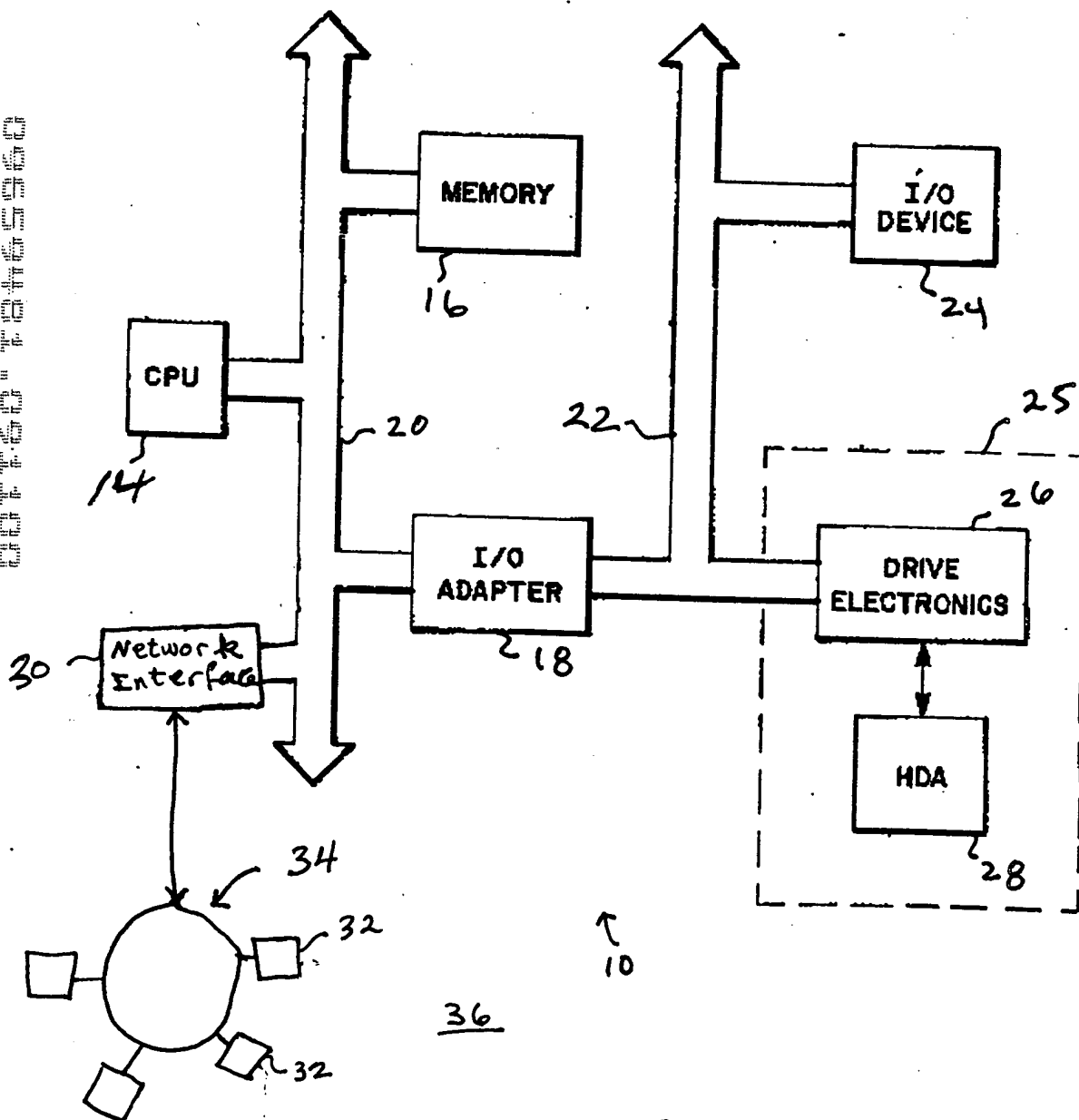


FIG. 2

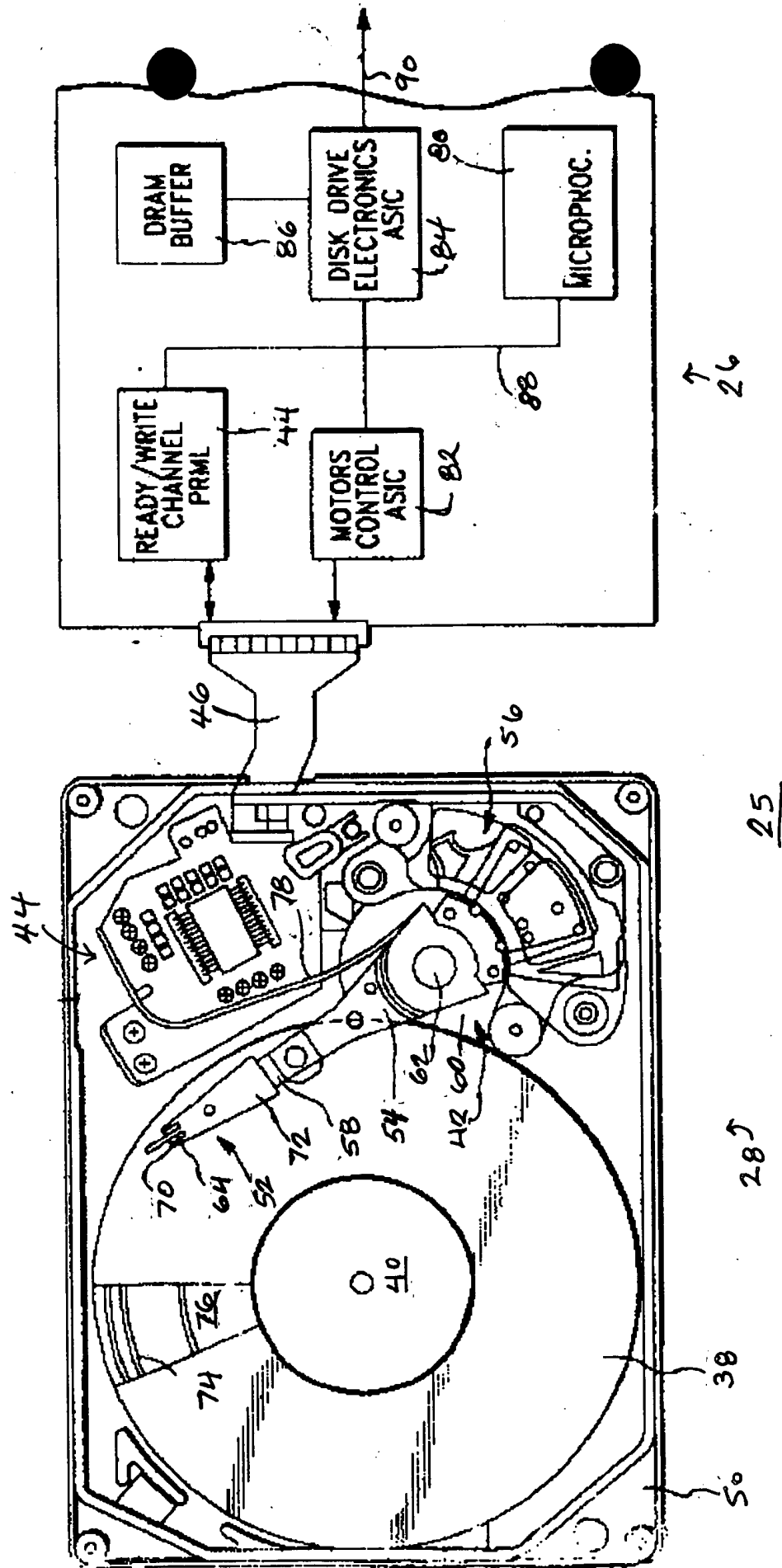


FIG. 3

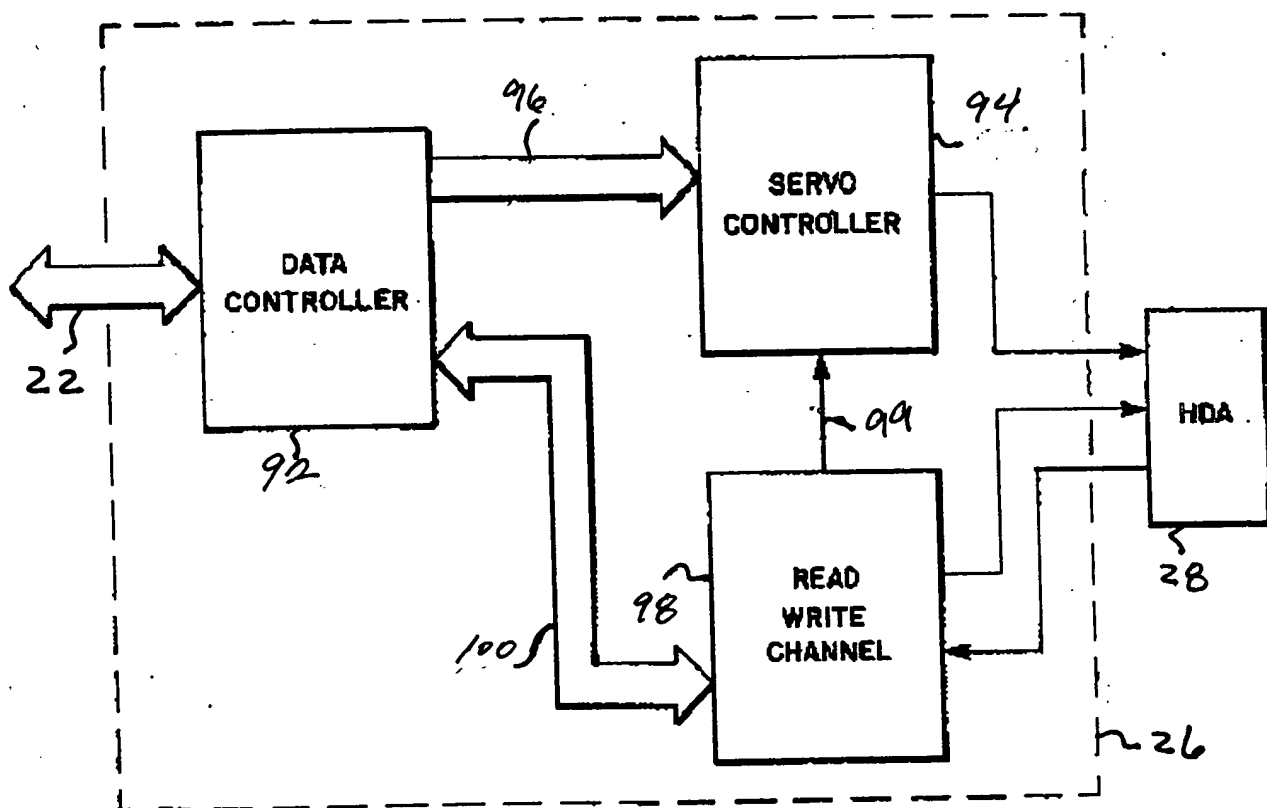


FIG. 4

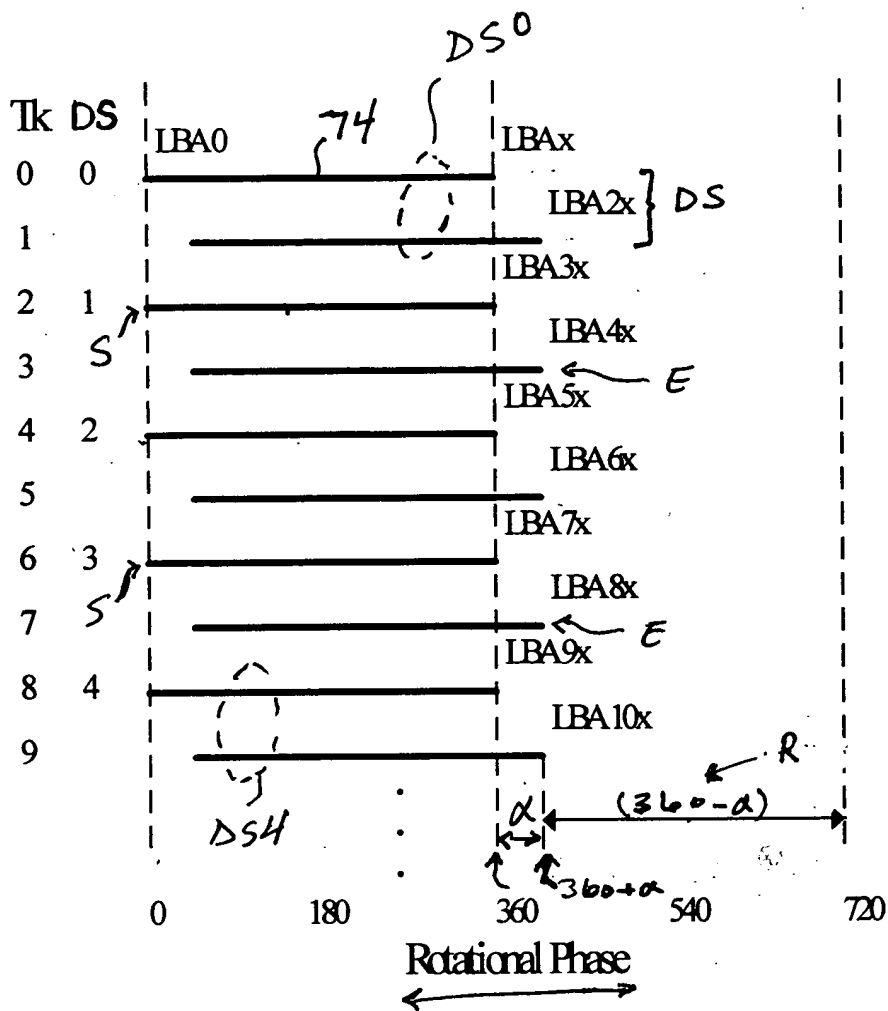


FIG. 5

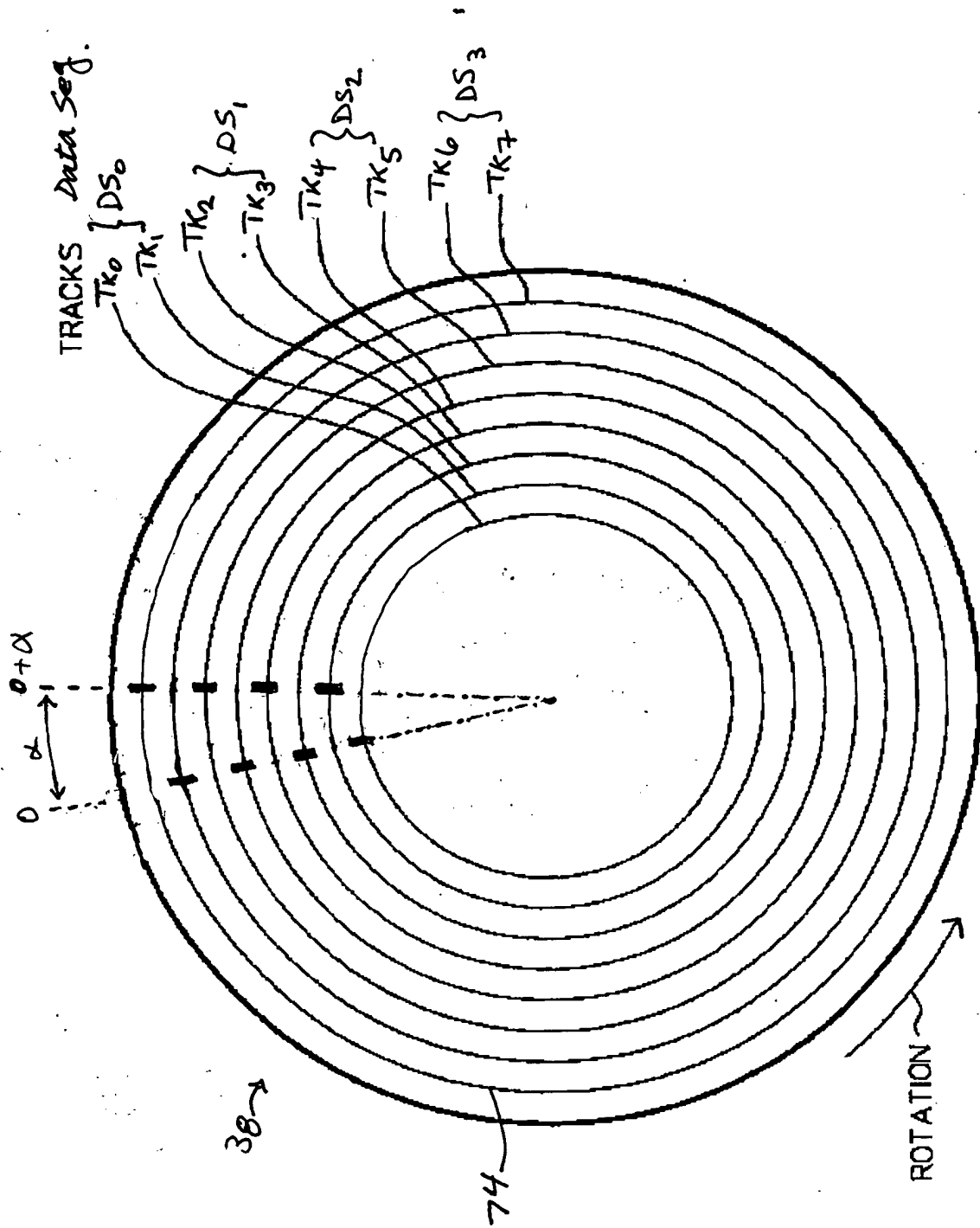


FIG. 6A

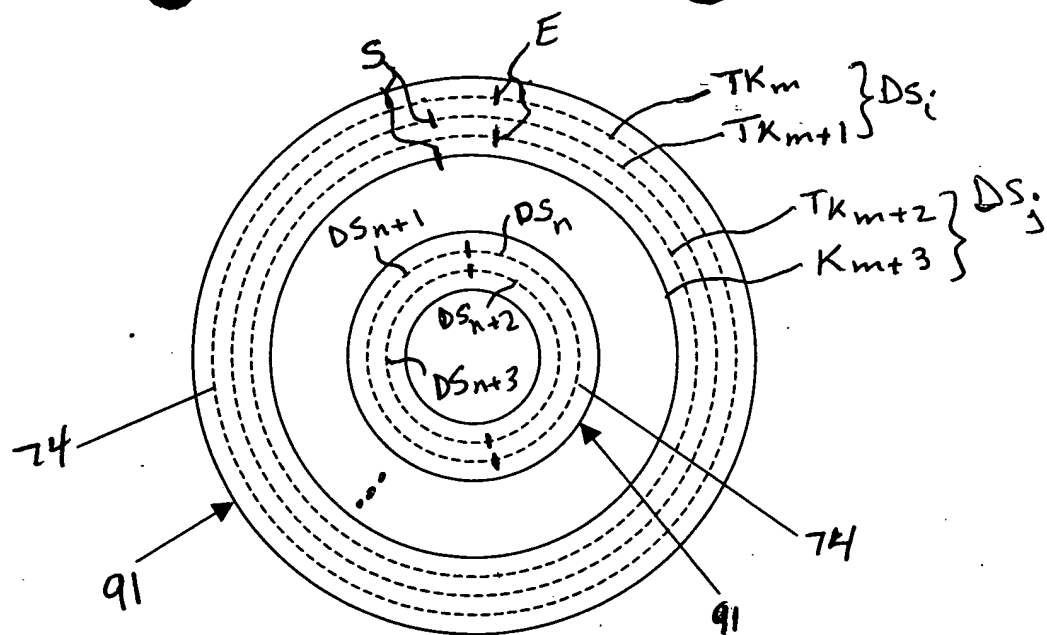
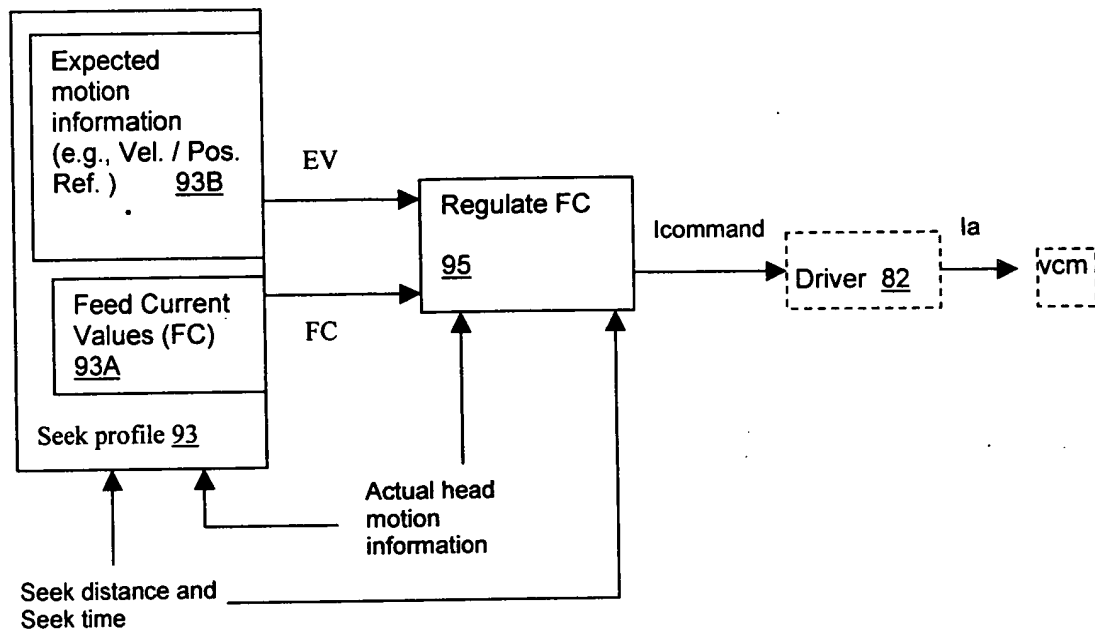


FIG. 6B



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FIG. 7A

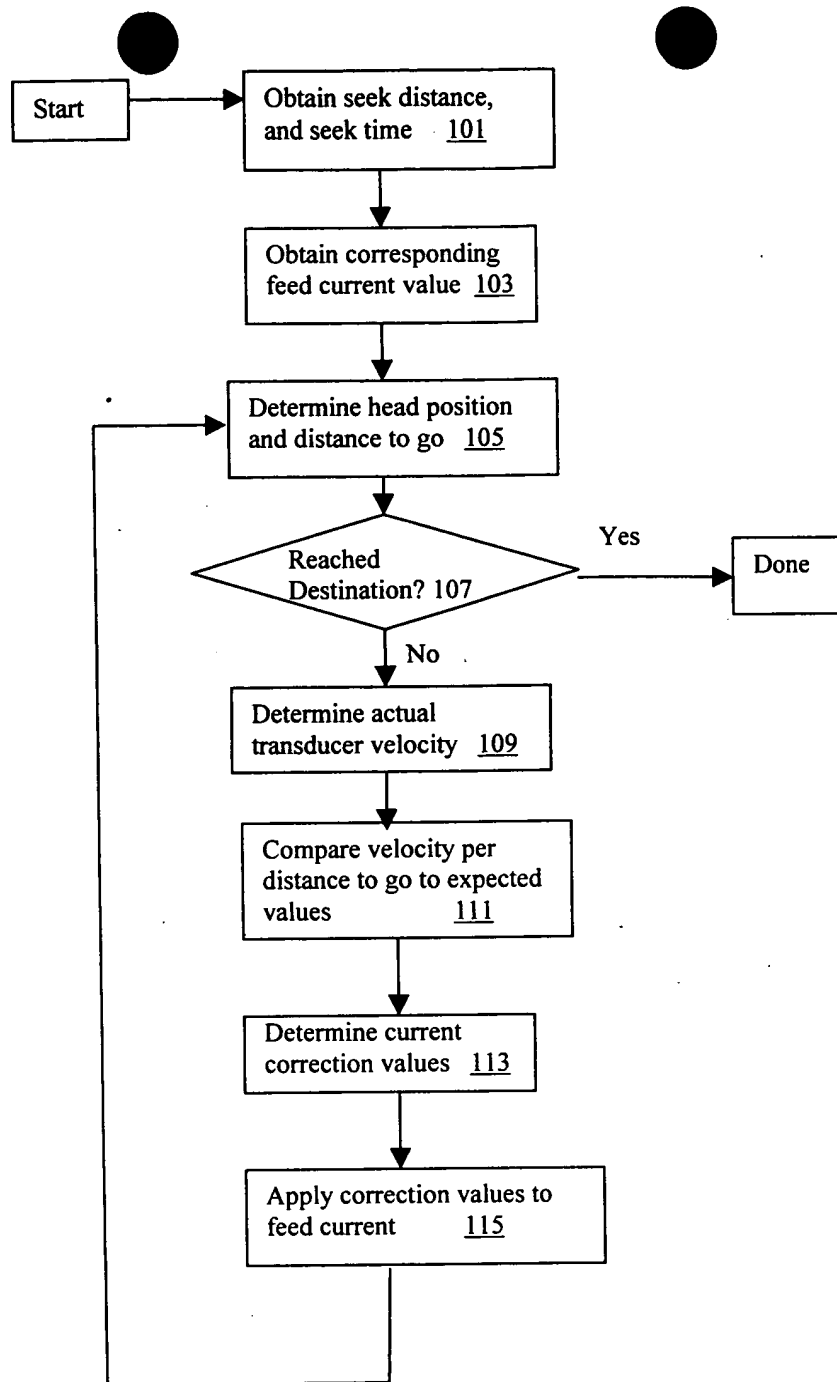
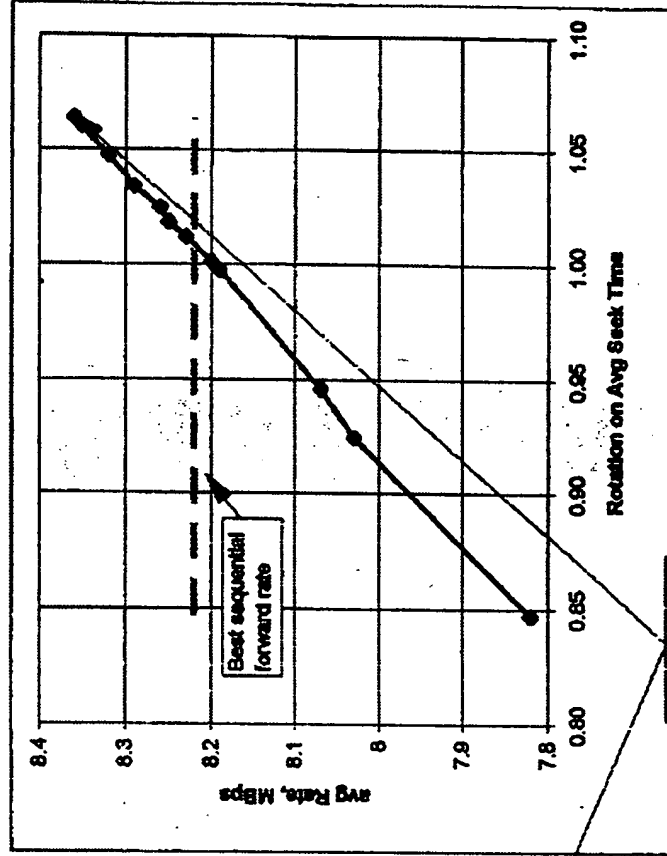


FIG. 7B

Summary of various solutions - 2 Tracks Per DS

8.4 Avg Seek time
11 Trev

Skew modulus	Skew factor	Skew time	Rotation Phase	Rotation Time, msec	Rotation on Avg Seek Time	avg Rate, MBps
17	6	3.88	0.647	7.12	0.85	7.82
17	5	3.24	0.708	7.76	0.92	8.03
18	5	3.06	0.722	7.94	0.95	8.07
21	5	2.62	0.762	8.38	1.00	8.19
17	4	2.59	0.765	8.41	1.00	8.2
22	5	2.50	0.773	8.50	1.01	8.23
18	4	2.44	0.778	8.56	1.02	8.25
23	5	2.39	0.783	8.61	1.02	8.26
19	4	2.32	0.789	8.68	1.03	8.29
20	4	2.20	0.800	8.80	1.05	8.32
21	4	2.10	0.810	8.90	1.06	8.35
32	6	2.06	0.813	8.94	1.06	8.36
64	12	2.06	0.813	8.94	1.06	
128	24	2.06	0.813	8.94	1.06	
256	48	2.06	0.813	8.94	1.06	
512	96	2.06	0.813	8.94	1.06	
1024	191	2.05	0.813	8.95	1.07	



1.7% Improvement over best sequential rate
7% increase over this range

FIG. 8A

FIG. 8B

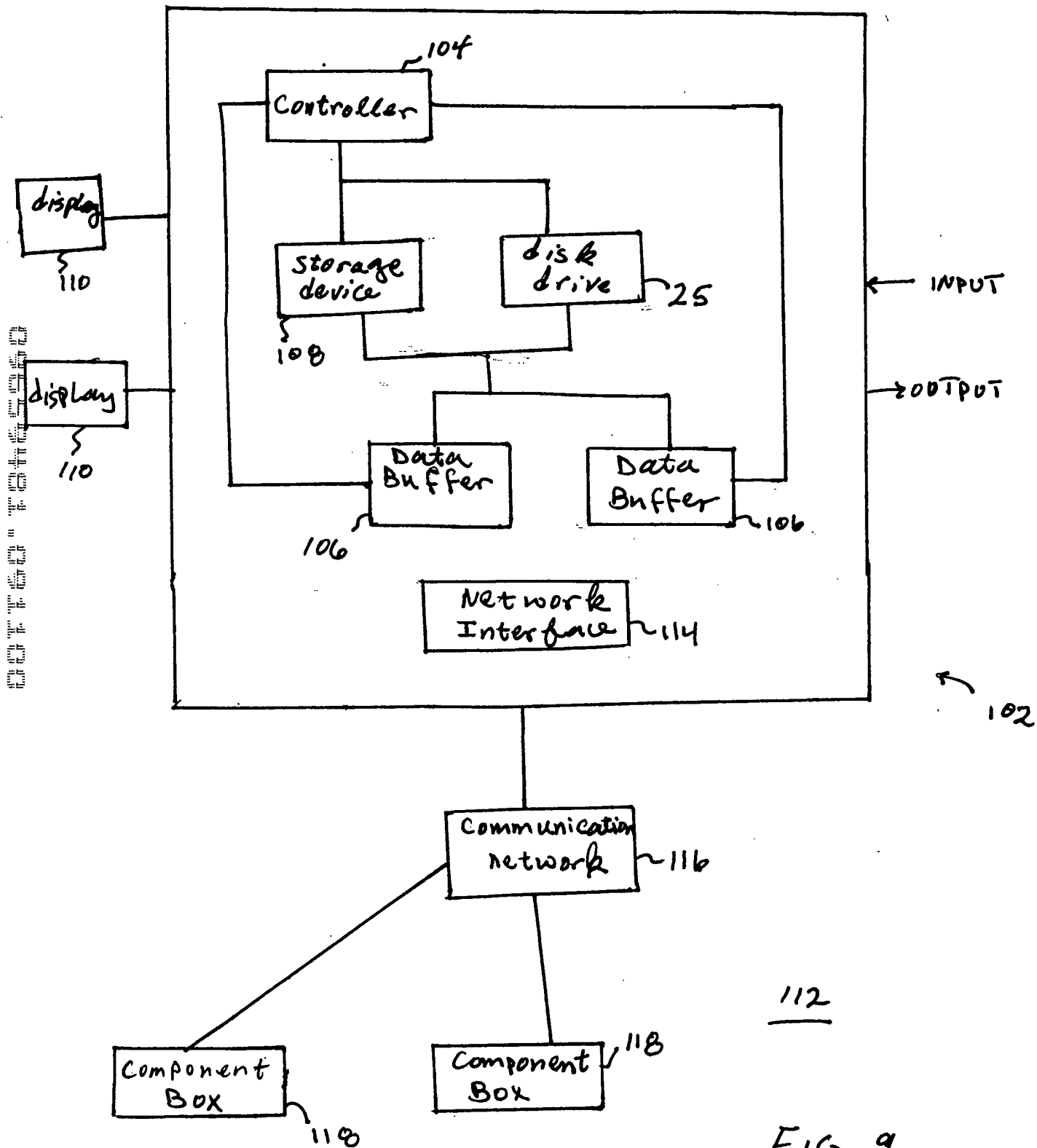


FIG. 9

start

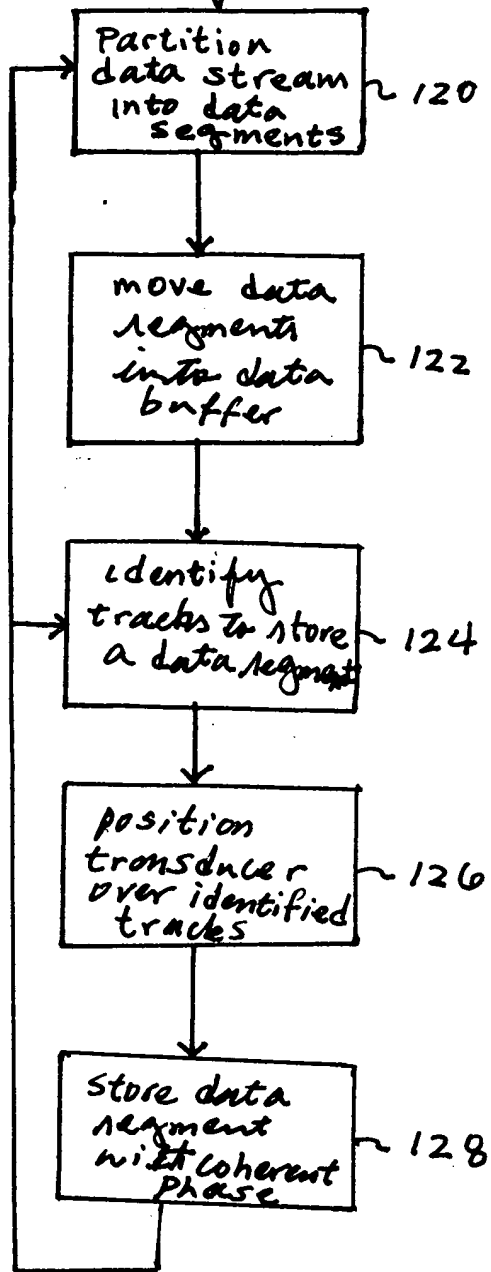


FIG. 10

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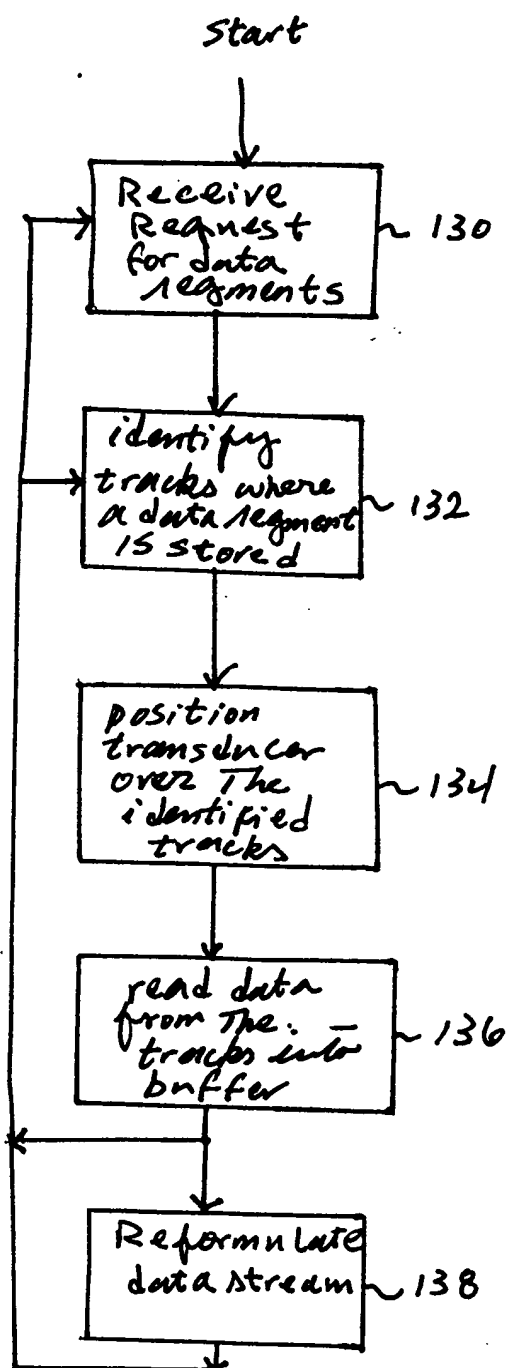


FIG. 11

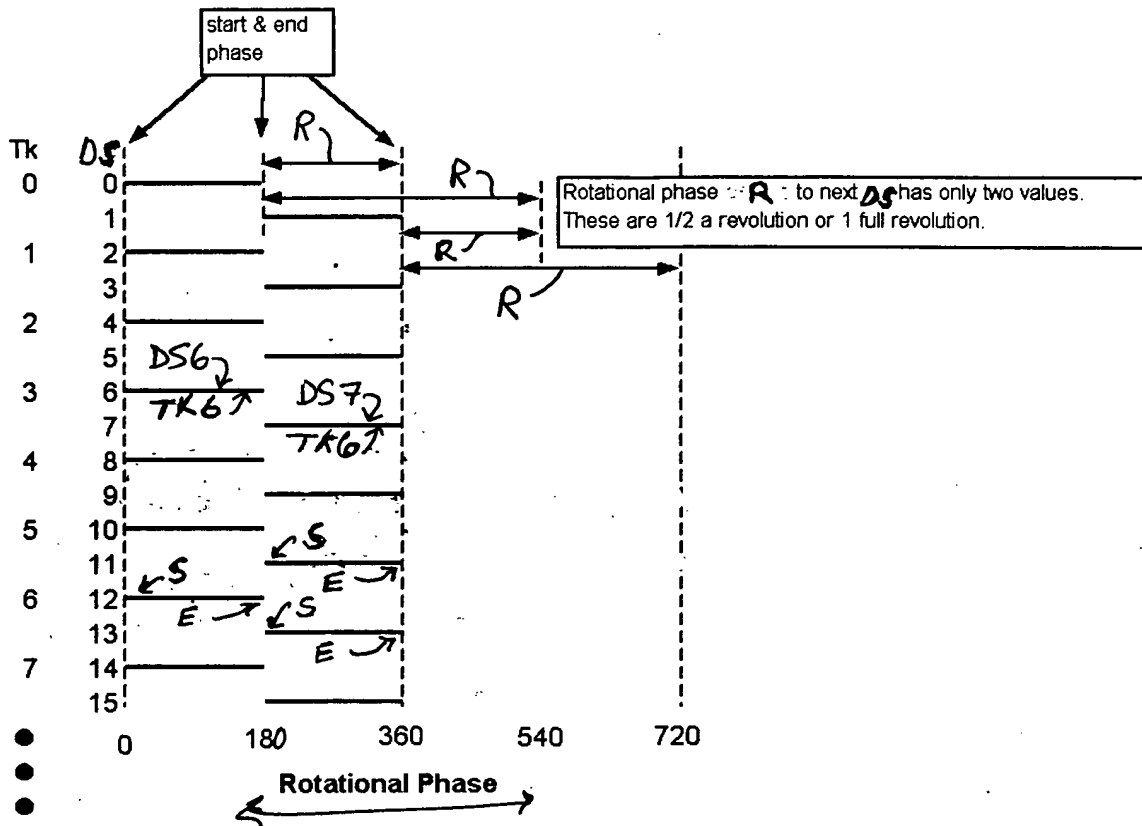


FIG. 12A

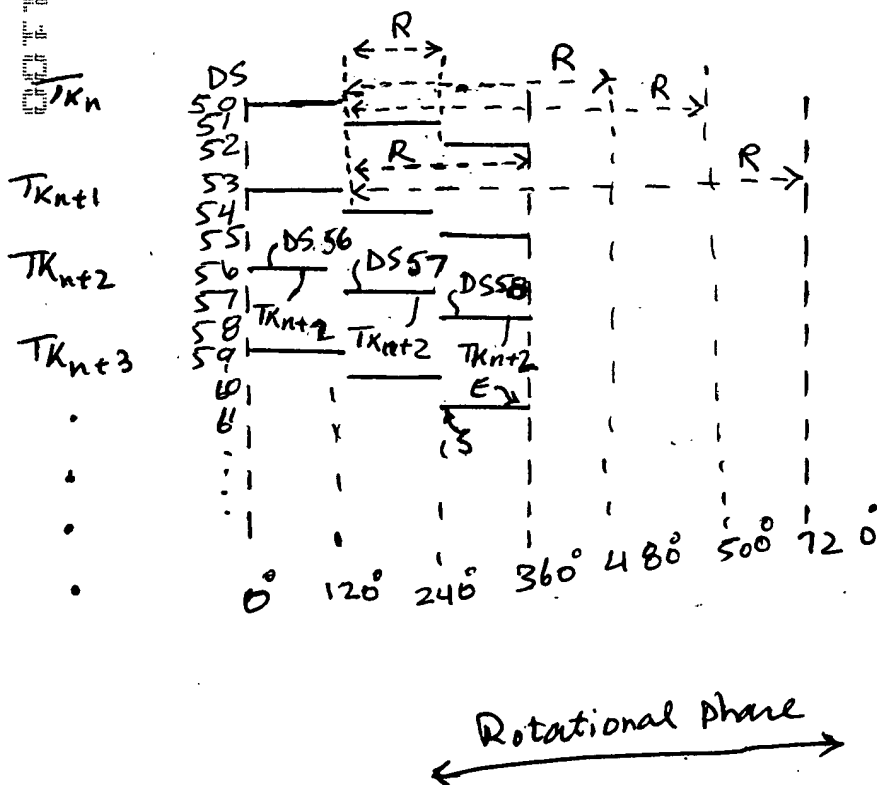


FIG. 12B